

**Tetra Tech, Inc.**

4213 State Street, Suite 100
 Santa Barbara, CA 93110-2847
 VOICE (805) 681-3100 FAX (805) 681-3108

Project: **Vandenberg Air Force Base IRP**Log of Well No. **5-MW-6**
 Location: **OU5, Site 5, approximately 400 feet northeast
 of the confluence of Bear Creek and tributary.**

Date Started: 4/29/99 Completed: 4/29/99

Logged By: M. Wulftange Checked By: K. McNamara, R.G.

Drilled By: J. Surigao, Valley Well Drilling *KM# 6678*

Drilling Equipment: B-61 Mobil Drill, 6-inch & 10-inch HSA

 Sampling Equipment: 2-inch I.D. Split Spoon (0-10 ft)
 2.5-inch I.D. Split Spoon (10-27.5 ft)

GS Elev.: 243.2 ft above MSL TD: 27.5 ft bgs

4" PVC Bank Casing: from 0 ft bgs to 9 ft bgs

0.01" Screening Casing: from 9 ft bgs to 24 ft bgs

Bentonite/Cement Grout: from 0 ft bgs to 5 ft bgs

Bentonite Transitional Seal: from 5 ft bgs to 7 ft bgs

#2/12 Sand Filter Pack: from 7 ft bgs to 27.5 ft bgs

TOC Elev.: 245.84 ft above MSL

Depth (ft bgs)	MATERIAL DESCRIPTION	Material Symbol	Material Type	Well Construction	Sample	Blow Counts per 6"	Percent Recovery	PID (ppm) Amb/Smp	REMARKS
5	<u>silty sand</u> , dark yellowish brown (10YR 3/6), fine grained, poorly graded, subangular, very loose, slightly moist, little silt, few roots, alluvium. @ 1.5 ft, 2 inch fine gravel layer.		SM			3	75	0/6.1	Start drilling 0955. Sample V5MW6-0 submitted for laboratory analyses. Sample V5MW6-2 submitted for laboratory analyses.
						4			
						5			
						5			
						5			
	<u>silt</u> , very dark gray (10YR 3/1), loose, slightly moist, few silt, trace fine grained subangular sand, trace roots, alluvium. little roots		ML			6	50	0/5.5	Sample V5MW6-5 submitted for laboratory analyses.
						4			
						4			
						5			
						2			
10	few nodules of clay, very loose, very moist.					3	100	0/0	Sample V5MW6-10 submitted for laboratory analyses.
						4			
						1			
						2			
						3			
	wet.						100		
15	trace roots.						60	0/0	
20	<u>silt with clay</u> , very dark gray (10YR 3/1), wet, few fine grained subangular sand, few roots, alluvium.		ML				100		
20						100	0/0		

13.75 ft bgs Groundwater depth during drilling 12.2 ft bgs Groundwater depth before sampling on 5/29/99

TC Number: A234-06

TETRA TECH, INC.

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20	clay with silt, very dark gray (10YR 3/1), medium plasticity, very moist, trace fine grained subangular sand. mottling, yellowish brown (10YR 5/8).		CL/ ML				100		
25	clay, very dark gray (10YR 3/1), very moist, trace fines, medium to high plasticity. few 1/4" nodules of very pale brown (10YR 7/4) clay.		CL				100	0/0	
30							40		End drilling 1235. TD of 6-inch hole at 27.5 ft. Ream with 10-inch auger to 27 ft. Construct 4-inch well.
35									
40									
45									